## Makley [54] HAND-HELD LABELER [75] Inventor: James A. Makley, Dayton, Ohio [73] Assignee: Monarch Marking Systems, Inc., Dayton, Ohio [21] Appl. No.: 582,337 [22] Filed: Feb. 28, 1984 [51] Int. Cl.<sup>3</sup> ...... B65C 11/00; B65C 11/02 [52] U.S. Cl. ...... 156/384; 101/288; 156/577; 156/579; 156/584; 156/DIG. 48; 156/DIG. 49 [58] Field of Search ...... 156/384, 541, 577, 579, 156/584, DIG. 48, DIG. 49; 101/288 [56] References Cited U.S. PATENT DOCUMENTS 3,923,582 12/1975 Schroter et al. ...... 156/584

4,288,276 9/1981 Schrotz et al. ...... 156/384

United States Patent [19]

[11]	Patent Number:	4,490,206
------	----------------	-----------

[45] Date of Patent: Dec. 25, 1984

Primary Examiner—Michael Wityshyn						
4,44	4,611	4/1984	Becker	156/384		
4,36	9,085	1/1983	Hermann	156/384		
			Becker et al			

Attorney, Agent, or Firm-Joseph J. Grass

[57] ABSTRACT

There is disclosed a hand-held labeler with a thermographic print head for printing on labels releasably secured to a carrier web, a delaminator for delaminating printed labels, an applicator for applying printed labels, a web feeding mechanism including an electric motor for advancing the carrier web, a detachable handle containing a source of electrical energy, and circuitry including a plurality of printed circuit boards electrically connecting the electrical energy source, the keyboard and the print head.

7 Claims, 25 Drawing Figures

